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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,366	03/30/2004	James William Bray	135481-I/YOD GERD:0089	4690
7590	03/17/2006		EXAMINER LAM, THANH	
Patrick S. Yoder FLETCHER YODER P.O. Box 692289 Houston, TX 77269-2289			ART UNIT 2834	PAPER NUMBER

DATE MAILED: 03/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/813,366	BRAY ET AL.	
	Examiner	Art Unit	
	Thanh Lam	2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 09 January 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group I, claims 1-19, and Species A, figures 1-3 in the reply filed on 1/9/06 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Muller et al.

Regarding claim 1, muller et al. disclose a rotating electrical machine, comprising: a superconductive rotor coil; and a rotatable shaft (6) comprising: an axial passageway (13 or 14) extending through the rotatable shaft; and a first passageway (35) extending through a wall of the rotatable shaft to the axial passageway, wherein the axial passageway and the first passageway are operable to convey a cryogenic fluid to the superconductive rotor coil.

Regarding claim 2, muller et al. disclose a second passageway extending through the wall (9) of the rotatable shaft to the axial passageway.

Regarding claim 3, muller et al. disclose a first axial tube (33 or 34) and a second axial tube (11 or 12) disposed telescopically within the axial passageway.

Regarding claim 4, muller et al. disclose a first axial tube and a second axial tube disposed side-by-side within the axial passageway.

Regarding claim 5, muller et al. disclose the first passageway is coupled to the first axial tube and the second passageway is coupled to the second axial tube.

Regarding claim 6, muller et al. disclose the first axial tube and the second axial tube are doubled walled.

Regarding claim 7, muller et al. disclose the first axial tube and the second axial tube each comprise a coating operable to reduce the emissivity of the first axial tube and the second axial tube to reduce radiative heat transfer to the cryogenic fluid.

Regarding claim 8, muller et al. disclose a cryogenic transfer coupling disposed radially around the rotatable shaft wherein the cryogenic transfer coupling is operable to direct cryogenic fluid to the first passageway and to receive cryogenic fluid from the second passageway.

Regarding claim 9, muller et al. disclose the rotating electrical machine is a generator comprising a stator.

Regarding claim 10, muller et al. disclose the first passageway and the second passageways extend radially through the rotatable shaft.

Regarding claim 11, muller et al. disclose system for cryogenically cooling a superconductive rotor coil, comprising: a transfer coupling (20) operable to be disposed radially around a rotatable shaft (6) to couple cryogenic fluid between a source of cryogenic fluid (source connecte to 38) and a passageway (35) extending through the

rotatable shaft, wherein the cryogenic fluid is coupled from the rotatable shaft to the superconductive rotor coil.

Regarding claim 12, muller et al. disclose the transfer coupling comprises a rotatable member secured to the rotatable shaft and a stationary member disposed in sealing arrangement with the rotatable member.

Regarding claim 13, muller et al. disclose the stationary member is aligned to direct cryogenic fluid into a first passageway in the rotatable shaft and to receive cryogenic fluid from a second passageway in the rotatable shaft.

Regarding claim 14, muller et al. disclose comprising a first axial tube and a second axial tube disposed within the rotatable shaft wherein the first passageway directs cryogenic fluid into the first axial tube and the second passageway receives cryogenic fluid from the second axial tube.

Regarding claim 15, muller et al. disclose the first axial tube and the second axial tube are oriented in a telescopic orientation.

Regarding claim 16, muller et al. disclose the first axial tube and the second axial tube are oriented in a side-by-side orientation.

Regarding claim 17, muller et al. disclose the first axial tube and the second axial tube are double walled vacuum-sealed tubes.

Regarding claim 18, muller et al. disclose the first axial tube comprises a coating operable to reduce radiative heat transfer from the first axial tube to the cryogenic fluid.

Regarding claim 19, muller et al. disclose a first radial tube disposed in the first passageway to thermally insulate the cryogenic fluid flowing through the first assageway from the rotatable shaft.

4. Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Vinokuov et al. (4194137) and Rozenfeld et al. (4227102).

Vinokuov et al. and Rozenfeld et al. are at least anticipated the recited claimed invention in claims 1 and 11.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (571) 272-2026. The examiner can normally be reached on tu-th 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2834

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Thanh Lam
Primary Examiner
Art Unit 2834
